*TM 11-5820-357-20P
TO 31R1-2URR-404

DEPARTMENT OF THE ARMY TECHNICAL MANUAL
DEPARTMENT OF THE AIR FORCE TECHNICAL ORDER

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS AND MAINTENANCE ALLOCATION CHART, RECEIVER, RADIO R-390/URR

Departments of the Army and the Air Force, Washington 25, D. C.
4 November 1959

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SECTION I

INTRODUCTION

1. Scope

a. This manual lists the quantities of repair parts authorized for organizational maintenance and is a basis for requisitioning by organizations which are authorized the major item of equipment. End items of equipments are issued on the basis of allowances prescribed in equipment authorization tables and other documents that are a basis for requisitioning.

b. Columns are as follows:

(1) *Source, maintenance, and recoverability code.* Not used.

(2) *Federal stock number.* The stock number column lists the 11-digit Federal stock number.

(3) *Designation by model.* Not used.

*This manual supersedes the second echelon portion of DA Supply Manual SIG 7 & 8 R-390/URR, 21 June 1957, including C 1, 4 December 1957 and C 2, 29 October 1958.

(4) *Description.* Nomenclature or the standard item name and brief identifying data for each item is listed in this column. When requisitioning, enter the nomenclature and description on the requisition.

(5) *Unit of issue.* The unit of issue is the supply term by which the individual item is counted for procurement, storage, requisitioning, allowances, and issue purposes.

(6) *Expendability.* Expendable items are indicated by the letter X; nonexpendable items are indicated by NX.

(7) *Quantity incorporated in unit.* This column lists the quantity of each particular part found in a given assembly, component, or equipment.

(8) *Organizational.* The quantities indicated in these columns are maximum levels of repair parts authorized to be kept on hand by units performing organizational maintenance. The quantities are based on 100 equipments to be maintained for a 15-day period.

(9) *Illustration.* The item No. column lists the reference designations that appear on the part in the equipment. These same designations are also used on any illustrations of the equipment.

2. Stockage

When this equipment is used by signal service organizations organic to the theater headquarters or communication zones to provide theater communications, those repair parts authorized up to and including fourth echelon are authorized for stockage by the organization operating this equipment.

3. Additional Repair Parts

Additional repair parts which may be required for performing organizational maintenance, but are not authorized for stockage in the prescribed load are identified by an asterisk (*) and are to be requisitioned as required, for immediate use only. Refer to AR 700–18.

4. Critical Items

A zero slash (Ø) in the description column indicates items that are expected to fail during the first year; also items that will make the equipment inoperative if they fail.

5. Electron Tubes

The consumption rates given for tubes are conservative theoretical estimates, and are provided for use only where no better information, such as data based on operating experience, is available. These figures are based on levels and requirements for equipment actually in use, not on authorizations or equipment stored in depots.

6. References

Additional instructions concerning maintenance of this equipment are contained in—

TM 11–856, Radio Receiver R–390/URR.

TM 11–1580–359–12P, Operator's, Organizational Maintenance Repair Parts and Special Tools List and Maintenance Allocation Chart for Power Supply PP–621/URR.

TM 11–5820–357–10P, Operator's Maintenance Repair Parts and Special Tools for Receiver, Radio R–390/URR.

7. Comments or Suggestions

Any comments concerning omissions and discrepancies in this manual will be prepared on DA Form 2028 and forwarded direct to Commanding Officer, U. S. Army Signal Equipment Support Agency, Fort Monmouth, N. J.
ATTN: SIGFM/ES–ML.

SECTION II FUNCTIONAL PARTS LIST

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) ORGANIZATIONAL 18 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	(9) ILLUSTRATIONS FIGURE NO	(10) ILLUSTRATIONS ITEM NO
			RECEIVER, RADIO R-390/URR						
	5820-503-1242		RECEIVER, RADIO R-390/URR	ea	NX				
	5920-665-5176		Ø CAP, ELECTRICAL: molded black phenolic; 5/8 in lg x 11/16 in dia; Littelfuse part No. 342003-SA-2; Collins part/dwg No. 265 1043 00	ea	X	3	*		
	5955-250-0568		Ø CRYSTAL UNIT, QUARTZ CR-45/U: 455 kc; Collins part/dwg No. 291 9983 00	ea	NX	1	*		Y501
	5955-267-4252		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 1000 kc; Collins part/dwg No. 290 0001 00	ea	NX	1	*		Y901
	5955-267-4246		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 6200 kc; Collins part/dwg No. 290 0002 00	ea	NX	1	*		Y408
	5955-267-4245		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 7000 kc; Collins part/dwg No. 290 0003 00	ea	NX	1	*		Y405
	5955-267-4253		Ø CRYSTAL UNIT, QUARTZ CR-26/U: 8000 kc; Collins part/dwg No. 290 0004 00	ea	NX	2	*		Y402 Y410
	5955-267-4207		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 8500 kc; Collins part/dwg No. 290 0005 00	ea	NX	1	*		Y415
	5955-267-4208		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 9000 kc; Collins part/dwg No. 290 0006 00	ea	NX	2	*		Y401 Y411
	5955-267-4205		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 9500 kc; Collins part/dwg No. 290 0007 00	ea	NX	1	*		Y423
	5955-295-7445		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 9666.667 kc; Collins part/dwg No. 290 0008 00	ea	NX	1	*		Y419
	5955-267-4203		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 10,000 kc; Collins part/dwg No. 290 0009 00	ea	NX	2	*		Y403 Y412
	5955-295-7450		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 10333.333 kc; Collins part/dwg No. 290 0010 00	ea	NX	1	*		Y418
	5955-267-4201		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 10,500 kc; Collins part/dwg No. 290 0011 00	ea	NX	1	*		Y422
	5955-667-2420		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 10,666.667 kc; Collins part/dwg No. 290 0012 00	ea	NX	1	*		Y417
	5955-267-4199		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 11,000 kc; Collins part/dwg No. 290 0013 00	ea	NX	1	*		Y413
	5955-667-2421		Ø CRYSTAL UNIT, QUARTZ CR-36/U: Collins part/dwg No. 290 0014 00	ea	NX	1	*		Y416
	5955-267-4197		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 11,500 kc; Collins part/dwg No. 290 0015 00	ea	NX	1	*		Y421
	5955-267-4198		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 12,000 kc; Collins part/dwg No. 290 0016 00	ea	NX	1	*		Y406

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) ORGANIZATIONAL 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	(9) ILLUSTRATIONS FIGURE NO.	(10) ILLUSTRATIONS ITEM NO.
			R-390/URR (Continued)						
	5955-667-2665		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 12,500 kc; Collins part/dwg No. 290 0017 00	ea	NX	1	*		Y420
	5955-267-4195		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 12,600 kc; Collins part/dwg No. 290 0018 00	ea	NX	1	*		Y404
	5955-267-4196		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 13,000 kc; Collins part/dwg No. 290 0019 00	ea	NX	1	*		Y414
	5955-267-4194		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 14,000 kc; Collins part/dwg No. 290 0020 00	ea	NX	1	*		Y409
	5955-667-2664		Ø CRYSTAL UNIT, QUARTZ CR-36/U: 15,000 kc; Collins part/dwg No. 290 0021 00	ea	NX	1	*		Y407
	5960-188-3553		Ø ELECTRON TUBE: MIL type 6AJ5 (Item Nos: V201 V401 V402)	ea	X	3	*		See desc column
	5960-188-3551		Ø ELECTRON TUBE: MIL type 6AK6 (Item Nos: V506 V603 V604)	ea	X	3	*		See desc column
	5960-188-3602		Ø ELECTRON TUBE: MIL type 6BH6	ea	X	1	*		V607
	5960-188-6589		Ø ELECTRON TUBE: MIL type 6BJ6 (Item Nos: V202 V501 thru V505 V509)	ea	X	7	*		See desc column
	5960-188-8515		Ø ELECTRON TUBE: MIL type 6C4 (Item Nos: V203 V204 V205)	ea	X	3	*		See desc column
	5960-262-0167		Ø ELECTRON TUBE: MIL type 12AT7WA	ea	X	1	*		V602
	5960-166-7663		Ø ELECTRON TUBE: MIL type 12AU7 (Item Nos: V507 V510 V511 V601)	ea	X	4	*		See desc column
	5960-167-0389		Ø ELECTRON TUBE: MIL type 5651	ea	X	2	*		V608 V609
	5960-264-2089		Ø ELECTRON TUBE: MIL type 5749/6BA6W; (when V701 is replaced sub-assembly must be adjusted)	ea	X	2	*		V508 V701
	5960-262-0210		Ø ELECTRON TUBE: MIL type 5814A; (when changing tubes, V901 and V902 should be changed at same time)	ea	X	2	*		V901 V902
	5960-264-1486		Ø ELECTRON TUBE: type 6082 per BUSHIPS Spec	ea	X	2	*		V605 V606

(1) SOURCE MAINTENANCE AND RECOVERABILITY CODE	(2) FEDERAL STOCK NUMBER	(3) DESIGNATION BY MODEL	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) EXPENDABILITY	(7) QUANTITY INCORPORATED IN UNIT	(8) ORGANIZATIONAL 15 DAYS MAINTENANCE ALLOWANCE PER 100 EQUIPMENTS 2ND	(9) ILLUSTRATIONS FIGURE NO.	(10) ILLUSTRATIONS ITEM NO.
			R-390/URR (Continued)						
	5920-131-9821		◊ FUSE, CARTRIDGE: Littelfuse No. 313003; Collins part/dwg No. 264 0009 00	ea	X	1	*		F101
	5920-537-6647		◊ FUSE, CARTRIDGE: MIL type F02GR375B	ea	X	1	*		F102
	5355-667-9338		KNOB: bar type; black; accom 0.257 in dia shaft; 15/16 in lg x 3/4 in dia; Collins part/dwg No. 281 0093 00	ea	X	7	*		
	5355-665-1307		KNOB: bar type; black; accom 0.257 in dia shaft; 1-1/8 in dia x 7/8 in lg; Collins part/dwg No. 281 0094 00	ea	X	6	*		
	5355-669-1711		KNOB: rd, bar type; black; accom 0.257 in dia shaft; 3/4 in lg x 15/16 in dia; Collins part/dwg No. 281 0095 00	ea	X	2	*		
	5355-668-1468		KNOB: rd, alum, black; accom 0.3125 in dia shaft; 1-1/4 in ig x 2-1/2 in dia; Collins part/dwg No. 281 0097 00	ea	X	2	*		
	6240-155-7836		◊ LAMP, INCANDESCENT: Fed Spec No. W-L-111b, trade No. 327; Collins part/dwg No. 262 0179 00	ea	X	2	*		I101 I102
	5905-502-4840		◊ RESISTOR, CURRENT REGULATING: MIL type TJ311M01	ea	X	1	*		RT512
	5960-262-0015		◊ SHIELD, ELECTRON TUBE: JAN type TS102U01 (Item Nos: E201 E401 E402)	ea	X	3	*		See desc column
	5960-272-9094		◊ SHIELD, ELECTRON TUBE: JAN type TS102U02 (Item Nos: E202 thru E205 E501 thru E506 E508 E509 E603 E604 E607 E608 E609)	ea	X	17	*		See desc column
	5960-264-3004		◊ SHIELD, ELECTRON TUBE: JAN type TS103U02 (Item Nos: E507 E510 E511 E601 E602 E901 E902)	ea	X	7	*		See desc column
	5960-284-4532		◊ SHIELD, ELECTRON TUBE: JAN type TS103U03	ea	X	1	*		E512

SECTION III

MAINTENANCE ALLOCATION

8. General

a. The maintenance allocation portion of this manual assigns maintenance functions and repair operations to be performed by the lowest appropriate maintenance echelon.

b. Columns in the maintenance allocation chart are as follows:

(1) *Part or component.* This column shows only the nomenclature or standard item name. Additional descriptive data is included only where clarification is necessary to identify the part. Components and parts comprising a major end item are listed alphabetically. Assemblies and subassemblies are in alphabetical sequence with their components listed alphabetically immediately below the assembly listing.

(2) *Maintenance function.* This column indicates the various maintenance functions allocated to the echelon capable of performing the operation. These are—

(*a*) *Service.* To clean, to preserve, and to replenish fuel and lubricants.

(*b*) *Adjust.* To regulate periodically to prevent malfunction.

(*c*) *Inspect.* To verify serviceability and to detect incipient electrical or mechanical failure by scrutiny.

(*d*) *Test.* To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc.

(*e*) *Replace.* To substitute serviceable assemblies, subassemblies, and parts for unserviceable components.

(*f*) Repair. To restore to a serviceable condition by replacing unserviceable parts or by any other action required utilizing tools equipment, and skills available, to include welding, grinding, riveting, straightening, adjusting, etc.

(*g*) *Aline.* To adjust two or more comcomponents of an electrical system so that their functions are properly synchronized.

(3) *1st, 2d, 3d, 4th, 5th echelon.* The symbol X indicates the echelon responsible for performing that particular maintenance operation, but does not necessarily indicate that repair parts will be stocked at that level. Echelons higher than the echelon marked by X are authorized to perform the indicated operation.

(4) *Tools required.* This column indicates codes assigned to each individual tool equipment, test equipment, and maintenance equipment referenced. The grouping of codes in this column of the maintenance allocation chart indicate the tool, test, and maintenance equipment required to perform the maintenance function.

(5) *Remarks.* Entries in this column will be utilized when necessary to clarify any of the data cited in the preceding columns.

c Columns in the section allocating tools for maintenance functions are as follows:

(1) *Tools required for maintenance functions.* This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

(2) *1st, 2d, 3d, 4th, 5th echelon.* A dagger (†) symbol indicates the echelons allocated the facility.

(3) *Tool code.* This column lists the tool code assigned.

(4) *Remarks.* Entries in this column are used to clarify data in the other columns.

9. Maintenance by Using Organizations

When this equipment is used by signal service organizations organic to theater headquarters or communication zones to provide theater communications, those maintenance functions allocated up to and including fourth echelon are authorized to the organization operating this equipment.

10. Mounting Hardware

The basic entries of this maintenance allocation chart do not include mounting hardware such as: screws, nuts, bolts, washers, brackets, clamps, etc.

MAINTENANCE ALLOCATION CHART

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH	(4) 2ND ECH	(5) 3RD ECH	(6) 4TH ECH	(7) 5TH ECH	(8) TOOLS REQUIRED	(9) REMARKS
RECEIVER, RADIO R-390/URR	service		X				11,12	
	adjust		X				7,11,12	
	inspect		X					
	test			X			4-6, 8-10 incl	
	align				X		1-6 8-10, 12-14 incl	
ADAPTER, CONNECTOR	replace		X					
AMPLIFIER, AF	replace			X				
	repair			X				
AMPLIFIER ASSEMBLY	replace			X				
	repair			X				
CABLE, RADIO FREQUENCY	replace			X				
CABLE, SPECIAL PURPOSE	replace			X				
CALIBRATOR, FREQUENCY	replace			X				
	repair			X				
CAP, ELECTRICAL	replace		X					
CAPACITOR, FIXED	replace			X				
CAPACITOR, VARIABLE	replace			X				
CAPACITOR ASSEMBLY	replace			X				
	repair			X				
CAPACITOR KIT	replace			X				
CLAMP, GEAR	replace				X			
COLLAR SHAFT	replace			X				
CLAMP, SHAFT	replace				X			
CLUTCH ASSEMBLY, FRICTION	replace				X			
COIL, RADIO FREQUENCY	replace			X				
CONNECTOR, PLUG, ELECTRICAL	replace			X				
CONNECTOR, RECEPTACLE, ELECTRICAL	replace			X				
CORE, ADJUSTABLE TUNING	replace			X				
COUNTER, ROTATING, FIXED MOUNTING	replace				X			

491-421 40781 (8)

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH	(4) 2ND ECH	(5) 3RD ECH	(6) 4TH ECH	(7) 5TH ECH	(8) TOOLS REQUIRED	(9) REMARKS
R-390/URR (Continued)								
COUPLING, SHAFT, FLEXIBLE	replace			X				
COUPLING HALF, SHAFT	replace			X				
COVER, ELECTRICAL CONNECTOR	replace			X				
CRYSTAL UNIT, QUARTZ	replace		X					
CRYSTAL UNIT, RECTIFYING	replace			X				
DETENT, PLATE SPRING	replace				X			
DETENT, SWITCH	replace			X				
ELECTRON TUBE	replace		X					
FILTER, BAND PASS	replace			X				
FILTER, LOW PASS	replace			X				
FUSE, CARTRIDGE	replace	X						
FUSEHOLDER	replace			X				
GEAR, BEVEL	replace			X				
GEAR BEVEL AND SPUR	replace			X				
GEAR, KC TUNING ASSEMBLY	replace				X			
GEAR, SPUR	replace			X				Gear, Spur 0299 and 0300 replace at 4th Echelon only
GEAR, WORM	replace			X				
GEAR TRAIN ASSEMBLY, RF	replace			X				
GEAR ASSEMBLY	replace			X				Gear Assembly, p/o RF Gear Train; 4th Echelon only
GUIDE, COUPLING	replace			X				
HUB, COUPLING	replace			X				
INSERT, ELECTRICAL, CONNECTOR	replace			X				
JACK, TELEPHONE	replace			X				
JACK, TIP	replace		X					
KNOB	replace		X					
LAMP, GLOW	replace			X				
LAMP, INCANDESCENT	replace		X					
METER, AUDIO LEVEL	replace			X				
OSCILLATOR, RADIO FREQUENCY	replace			X				
	repair			X				

(1) PART OR COMPONENT	(2) MAINTENANCE FUNCTION	(3) 1ST ECH	(4) 2ND ECH	(5) 3RD ECH	(6) 4TH ECH	(7) 5TH ECH	(8) TOOLS REQUIRED	(9) REMARKS
R-390/URR (Continued)								
OVEN, CRYSTAL	replace			X				
PIN, SPRING	replace			X				
POST, BINDING	replace			X				
POWER SUPPLY PP-621/URR	replace		X					Separate WA●
	repair			X				
REACTOR	replace			X				
RELAY, ARMATURE	replace			X				
RESISTOR, FIXED	replace			X				
RESISTOR, CURRENT REGULATING	replace			X				
RESISTOR, VARIABLE	replace			X				
RETAINER, CRYSTAL HOLDER	replace			X				
RING, RETAINING	replace			X				Retaining lings used in Gear Assemblies in 4th Echelon
SHIELD, ELECTRON TUBE	replace		X					
SOCKET, CRYSTAL	replace			X				
SOCKET, ELECTRON TUBE	replace			X				
SOCKET ASSEMBLY, CRYSTAL	replace			X				
SPRING, HELICAL COMPRESSION	replace			X				
SPRING, HELICAL EXTENSION	replace			X				
STOP, DIAL	replace			X				
SUPPRESSOR, ELECTRICAL NOISE	replace			X				
SWITCH, ROTARY	replace			X				
SWITCH, THERMOSTAT	replace			X				
SWITCH SECTION, ROTARY	replace			X				
SWITCH ASSEMBLY	replace			X				
SWITCH SECTION, ROTARY	replace			X				
TRANSFORMER	replace			X				
TUNER ASSEMBLY, RADIO FREQUENCY	replace		X					
	repair			X				
WRENCH, SOCKET HEAD SCREW	replace		X					OE item

ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) TOOLS REQUIRED FOR MAINTENANCE FUNCTIONS	(2) 1ST ECH	(3) 2ND ECH	(4) 3RD ECH	(5) 4TH ECH	(6) 5TH ECH	(7) TOOL CODE	(8) REMARKS
R-390/URR (Continued)							
ANALYZER, SPECTRUM TS-723/U				†	†	1	
AUDIO OSCILLATOR TS-382/U				†	†	2	
ELECTRON TUBE TESTER TV-2/U				†	†	3	
ELECTRON TUBE TESTER TV-7/U		†	†	†	†	4	
FREQUENCY METER SET I-129			†	†	†	5	
LOUDSPEAKER LS-3			†	†	†	6	
MULTIMETER TS-297/U		†				7	Replaced by AN/URM-105
MULTIMETER TS-352			†	†	†	8	Replaced by AN/URM-105
MULTIMETER TS-505			†	†	†	9	
SIGNAL GENERATOR AN/URM-25			†	†	†	10	
TOOL EQUIPMENT TE-41		†				11	
TOOL EQUIPMENT TE-113			†	†	†	12	
TOOL EQUIPMENT TE-114				†	†	13	
VOLTMETER ME-6A/U				†	†	14	Replaced by ME-30A/U

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Sig Lab (5)
Mil Dist (1)
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Sectors, USA Corps (Res) (1)
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JBUSMC (2)
USA Sig Pubs Agcy (8)
Army Pictorial Cen (2)
USA Ord Msl Comd (3)
Units org under fol TOE:
  11-7 (2)
  11-16 (2)
  11-32 (2)
  11-57 (2)
  11-85 (2)
  11-86 (2)
  11-98 (2)
  11-117 (2)
  11-155 (2)
  11-500 (AA-AE) (2)
  11-557 (2)
  11-587 (2)
  11-592 (2)
  11-597 (2)
  32-51 (2)
  32-55 (2)
  32-56 (2)
  32-57 (2)

NG: State AG (3); units—same as Active Army except allowance is one copy to each unit.
USAR: None.
For explanation of abbreviations used, see AR 320-50.

Organizational Maintenance Repair Parts and Special Tools Lists and Maintenance Allocation Chart

RECEIVER, RADIO R-390/URR

TM 11-5820-357-20P
TO 31R1-2URR-404
CHANGES No. 1

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
WASHINGTON 25, D.C., *25 April 1962*

TM 11-5820-357-20P/TO 31R1-2URR-404, 4 November 1959, is changed as follows:

6. References

(Superseded)

Additional instructions concerning maintenance of this equipment are contained in—

TM 11-5820-357-10, Operator's Manual for Radio Receiver R-390/URR.

TM 11-5820-359-12P, Operator and Organizational Maintenance Repair Parts and Special Tools List and Maintenance Allocation Chart for Power Supply PP-621/URR.

Page 8. Designate maintenance allocation chart as section IV.

Column 1, Receiver, Radio R-390/URR. Change column 8 as follows:

Column 8	*Column 8*
service	13, 16
adjust	5, 13, 16
test	1, 3, 4, 5, 6–12 incl
align	2, 5–12 incl, 14, 15

Section V (Superseded)

ALLOCATION OF TOOLS FOR MAINTENANCE FUNCTIONS

(1) Tools required for maintenance functions	(3) 2d echelon	(4) 3d echelon	(5) 4th echelon	(6) 5th echelon	(7) Tool code
SPECTRUM ANALYZER TS-723/U			(†)	(†)	1
AUDIO OSCILLATOR TS-382/U		(†)	(†)	(†)	2
ELECTRON TUBE TESTER TV-2/U				(†)	3
ELECTRON TUBE TESTER TV-7/U	(†)	(†)	(†)		4
LOUDSPEAKER LS-3		(†)	(†)	(†)	5
MULTIMETER TS-352/U		(†)	(†)	(†)	6
ELECTRONIC MULTIMETER TS-505/U		(†)	(†)	(†)	7
SIGNAL GENERATOR AN/URM-5		(†)	(†)	(†)	8
FREQUENCY METER AN/URM-32		(†)	(†)	(†)	9
VOLTMETER, METER ME-30/U		(†)	(†)	(†)	10
ACCESSORY KIT MK-288/URM		(†)	(†)	(†)	11
TEST ADAPTER MX-1487/URM-25D		(†)	(†)	(†)	12
TOOL KIT TK-115	(†)				13
TOOL KIT TK-87/U		(†)	(†)	(†)	14
TOOL KIT TK-88/U		(†)	(†)	(†)	15
MULTIMETER AN/URM-105	(†)				16

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11–16
11–32
11–57
11–85
11–98
11–117
11–155
11–157
11–500 (Trns AA–AE) (4)
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11–587
11–592
11–597
32–51
32–56
32–57
32–67
32–78

NG: State AG (3); units—same as active Army except allowance is one copy to each unit.
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For explanation of abbreviations used, see AR 320–50.

☆ U.S. GOVERNMENT PRINTING OFFICE : 1986 O—491–421 (40781)

PIN : 006387-000